## IN THE CLAIMS:

- 1. (Currently Amended) A method for providing consulting services to a customer in connection with the customer's electronics assembly system, comprising the steps of:
- a. identifying a set of solutions opportunities for the customer's electronics assembly system;
- b. modeling, on a computer, the customer's electronics assembly system in real time with the customer present;
  - c. defining one or more performance metrics for a proposed solution;
- d. prioritizing the identified solutions by running the model for each of the identified solutions;
- e. selecting a proposed solution from among the prioritized, identified solutions;
- f. quantifying the benefit of the proposed solution relative to the one or more performance metrics; and
- g. communicating the quantified benefit to the customer, wherein the quantified benefit comprises a cost of ownership measure.
- 2. (Original) The method according to claim 1, wherein the model represents the electronics assembly system at a material flow level of abstraction.
- 3. (Original) The method according to claim 1, wherein the model comprises a simulation.
- 4. (Original) The method according to claim 1, wherein the customer's electronics assembly system is modeled within approximately one half hour.
- 5. (Original) The method according to claim 1, wherein the proposed solution comprises information relating to a machine in the electronics assembly system.

- 6. (Original) The method according to claim 1, wherein the proposed solution comprises information relating to a software tool in the electronics assembly equipment.
- 7. (Original) The method according to claim 5, wherein the proposed solution comprises information relating to an operating parameter of a machine in the electronics assembly system.

## 8. Canceled

- 9. (Original) The method according to claim 1, further comprising the steps of:
- h. modifying the configuration of a modeled electronics assembly system proposed solution to reflect information provided by the customer;
- i. quantifying the benefit of the modified proposed solution relative to the one or more performance metrics; and
- j. communicating the quantified benefit of the modified proposed solution to the customer.
- 10. (Currently Amended) A method for developing an electronics assembly equipment sales offer to a customer during a particular sales session, the method comprising the steps of:
  - a. identifying a set of customer requirements and constraints;
- b. selecting an electronics assembly configuration, comprising electronics assembly equipment or its operating parameters or both, for accomplishing the customer requirements;
- c. establishing a model of an assembly system comprising the selected configuration;
- d. running the model <u>on a computer</u> to generate at least one performance measure;

- e. comparing the at least one performance measure against the customer constraints; and
- f. if the at least one performance measure satisfies the customer constraints, offering to sell at least a subset of the electronics assembly equipment of the configuration to the customer,

wherein the offer is developed, with the benefit of the model, during the sales session.

- 11. (Original) The method according to claim 10, wherein the model represents the electronics assembly system at a material flow level of abstraction.
- 12. (Original) The method according to claim 10, wherein the model comprises a simulation.
- 13. (Original) The method according to claim 10, wherein the customer's electronics assembly system comprising the selected configuration is modeled within approximately one half hour.
- 14. (Original) The method according to claim 10, wherein the proposed configuration comprises information relating to a machine in the electronics assembly system.
- 15. (Original) The method according to claim 10, wherein the proposed solution comprises information relating to a software tool in the electronics assembly equipment.
- 16. (Original) The method according to claim 14, wherein the proposed configuration comprises information relating to an operating parameter of a machine in the electronics assembly system.

- 17. (Original) The method according to claim 10, wherein the performance measure relates to a cost of ownership measure.
- 18. (Currently Amended) A method for optimizing the performance of an electronics assembly system during a customer session, comprising the steps of:
- a. establishing, during the session, a model of an assembly system having a plurality of possible configurations;
  - b. selecting a measure of performance for the assembly system;
  - c. selecting for evaluation a subset of the plurality of configurations;
- d. selecting a criterion for the comparison of the subset of the plurality of configurations and selection of a preferred configuration;
- e. running the model <u>on a computer</u> to predict the measure of performance for the system, for each of the subset of the plurality of configurations; <del>and</del>
- f. applying the criterion to the results obtained in step e to select a preferred configuration of the assembly system, and
- g. quantifying a benefit of the preferred configuration, wherein the quantified benefit comprises a cost of ownership measure.
- 19. (Original) The method according to claim 18, wherein the model represents the electronics assembly system at a material flow level of abstraction.
- 20. (Original) The method according to claim 18, wherein the model comprises a simulation.
- 21. (Original) The method according to claim 18, wherein the customer's electronics assembly system is modeled within approximately one half hour.
- 22. (Currently Amended) The method according to claim 18, wherein the proposed solution comprises preferred configuration includes information relating to a machine in the electronics assembly system.

- 23. (Currently Amended) The method according to claim 18, wherein the proposed solution comprises preferred configuration includes information relating to a software tool in the electronics assembly equipment.
- 24. (Currently Amended) The method according to claim 22, wherein the proposed solution comprises preferred configuration includes information relating to an operating parameter of a machine in the electronics assembly system.
  - 25. Canceled